A

Major Project Report

on

SEMANTICS OF DATA MINING SERVICES IN CLOUD COMPUTING

Submitted to

Jawaharlal Nehru Technological University, Hyderabad

in partial fulfillment of the requirements for the award of Degree of

Bachelor of Technology

in

Computer Science & Engineering

by

B. RAMYA	(196Y1A0518)
A. SRI DEEPA	(196Y1A0501)
G. SAI LAVANYA	(196Y1A0538)
G. SRAVYA	(196Y1A0534)

Under the guidance

of

Mr. K. RANGANATH

Asst. Professor

Department of Computer Science & Engineering

SUMATHI REDDY INSTITUTE OF TECHNOLOGY for WOMEN

(Approved by AICTE, New Delhi; Affiliated to JNTU, Hyderabad)

Ananthasagar(Vill), Hasanparthy(M), Warangal – 506 371 (T.S.), Website : www.sritw.org

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Rajaiah

PRINCIPAL

Sumathi Reddy Institute of Technology for Women

Ananthasagar (V), Hasanparthy (M)

WARANGAL - [illegible] (T.S.)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project entitled **"SEMANTICS OF DATA MINING SERVICES IN CLOUD COMPUTING"** is submitted by **B. RAMYA (196Y1A0518), A. SRI DEEPA (196Y1A0501), G. SAI LAVANYA (196Y1A0538)** and **G. SRAVYA (196Y1A0534)** in the partial fulfillment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering during academic year 2022-23.

Mr. K.RANGANATH
Project Guide

Dr.E.SUDARSHAN
Head of the Department

S.R.I.T. FOR WOMEN ★ WARANGAL ★

External Examiner

PRINCIPAL
Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M)
WARANGAL - 506 371 (T.S.)

ABSTRACT

The recent incorporation of new Data Mining and Machine Learning services within Cloud Computing providers is empowering users with extremely comprehensive data analysis tools including all the advantages of this type of environment. Providers of Cloud Computing services for Data Mining publish the descriptions and definitions in many formats and often not compatible with other providers. From a functional point of view, having the possibility to describe complete Data Mining services is fundamental to maintain the usability and especially the portability of these services independently of the software/hardware support or even the differences between cloud platforms. The main objective is to design a Data Mining service definition which allows to compose with a single and simple definition a complete service, in such way a data mining workflow can be ported and deployed in different providers or even in a Market Place of this type of ready-to-consume services. This presents a semantic scheme for the definition and description of complete Data Mining services considering both the management of the service by the provider (price, authentication, Service Level Agreement, ...) and the definition of the Data Mining workflow as a service. It represents a solid contribution for paving the way to the standardization and industrialization of Data Mining services. To assess the validity of the scheme a list of services from Data Mining providers have been described and an example of a full service for a Random Forest algorithm has been defined as a service. In addition, a practical scenario has been developed, creating a deployment platform for Data Mining services to give functional support to the scheme, illustrating the practical benefits of the proposal for the end user.

Rejan

Principal
Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M)
WARANGAL - 506 371 (TS)